


Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S41	2	"20030028551".pn. AND join	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/19 17:15
S42	0	"20030028551".pn. AND (merg\$4 sort\$4)	US-PGPUB	OR	OFF	2005/12/19 17:16
S43	1	"20030028551".pn. AND (tree\$1)	US-PGPUB	OR	OFF	2005/12/19 17:17
S44	0	"5799309".pn. AND tree\$1	US-PGPUB; USPAT	OR	OFF	2005/12/19 17:26
S1	51	(intermediate NEAR6 table\$1) AND (metadata meta-data)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 11:14
S46	849	(many-to-many m-to-m)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 11:51
S34	624	((many-to-many) (m-m) (m-to-m) (n-n) (n-to-n)) NEAR2 (relation\$1 relationship\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 13:44
S54	114	S53 AND (nest\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 13:45
S57	141	S56 AND "707"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 13:47
S55	629	S53 AND (nest\$3 combin\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 13:47
S56	210	S55 AND (object\$1 SAME relational)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 13:51
S59	34	"707"/\$.ccls. AND ((intermediate ADJ3 table\$1)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 14:59
S58	14	S56 AND (intermediate NEAR4 table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 14:59

S60	3	"707"/\$.ccls. AND ((intermediate ADJ3 table\$1) AND ((generat\$3 creat\$4) NEAR4 quer\$4 NEAR4 (combin\$6 merg\$4 nest\$4))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 16:30
S62	2	"20030028551".pn. AND (product\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 18:16
S61	2	"20030028551".pn. AND (signal\$3 transmission\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/21 18:16
S53	740	((many-to-many) (m-m) (m-to-m) (n-n) (n-to-n)) NEAR2 (relation\$1 relationship\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/23 13:27
L2	25	1 AND (intermediate NEAR4 table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/23 13:27
L1	740	((many-to-many) (m-m) (m-to-m) (n-n) (n-to-n)) NEAR2 (relation\$1 relationship\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/23 13:27
L3	16	2 AND ((generat\$4 creat\$4) NEAR4 quer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/23 13:28
L5	6	4 AND (merg\$4 sort\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/23 14:37
L4	7	3 AND ((object-oriented (object ADJ1 oriented)) SAME relational)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/23 14:37



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1 [The family of concurrent logic programming languages](#)

Ehud Shapiro

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: [PDF \(6.52 MB\)](#) Additional information: [Full citation](#) [Abstract](#) [References](#) [Cited by](#) [Index term\(s\)](#)

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

2 [A survey of approaches to automatic schema matching](#)

Erhard Rahm, Philip A. Bernstein

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: [PDF \(18.22 KB\)](#) Additional information: [Full citation](#) [Abstract](#) [References](#) [Cited by](#) [Index term\(s\)](#)

Schema matching is a basic problem in many database application domains, such as data integration, E-business, data warehousing, and semantic query processing. In current implementations, schema matching is typically performed manually, which has significant limitations. On the other hand, previous research papers have proposed many techniques to achieve a partial automation of the match operation for specific application domains. We present a taxonomy that covers many of these existing approach ...

Keywords: Graph matching, Machine learning, Model management, Schema integration, Schema matching

3 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: [PDF \(9.37 MB\)](#) Additional information: [Full citation](#) [Abstract](#) [References](#) [Cited by](#) [Index term\(s\)](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...


Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

4 [Federated databases and systems: part I — a tutorial on their data sharing](#)

David K. Hsiao

July 1992 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 1 Issue 1

Publisher: Springer-Verlag New York, Inc.




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1 [Relational database design using an object-oriented methodology](#)

Michael R. Blaha, William J. Premerlani, James E. Rumbaugh
April 1988 **Communications of the ACM**, Volume 31 Issue 4


Publisher: ACM Press
Full text available:  [pdf\(1.45 MB\)](#) Additional information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Of the many approaches to relational database design, the Object Modeling Technique (OMT) is particularly effective. A comprehensive explanation and two applications show the semantic improvement of OMT over other approaches.




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2 [Relations as semantic constructs in an object-oriented language](#)

James Rumbaugh
December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '87**, Volume 22 Issue 12


Publisher: ACM Press
Full text available:  [pdf\(1.62 MB\)](#) Additional information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The relation as a semantic construct in an object-oriented language clearly expresses associations and constraints among objects which would otherwise be buried in implementation code. The externalization of references between objects permits a symmetric, non-redundant conceptual model which merits its own special notation and predefined operations. The object-relation model, which combines the object-oriented model with the entity-relationship model from data base theory, is particularly u ...


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3 [Query evaluation techniques for large databases](#)

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press
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Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...



Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality


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4 [An analysis of cardinality constraints in redundant relationships](#)


James Dullea, Il-Yeol Song
January 1987 **Proceedings of the sixth international conference on Information and knowledge management**

Publisher: ACM Press
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5 [Types and persistence in database programming languages](#)

Malcolm P. Atkinson, O. Peter Buneman
June 1987




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